

ABSTRACT OF THE DISCLOSURE

5 An improved method and apparatus permits the insertion and removal of
an electronic monitoring device from a tire, while securing the electronic
monitoring device to the tire so that stress, strain, impact, cyclic fatigue and
vibration are minimized. After a rubber patch is vulcanized, the patch is
permanently assembled to the innerliner of a vulcanized tire by affixing it to the
tire innerliner. An electronic monitoring device, after having been encapsulated
in a suitable rigid potting material to form a rigid tag, is fitted with a power source
to form a tag assembly in a shape which allows for insertion into a cavity in the
patch. The tag is carefully inserted into the cavity housing. The tag assembly
is locked into place within the cavity using a suitable removable locking device.